

# Computer Programming

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# What IS Computer Programming?

Computer programming is the process of creating / coding an executable that tells the computer to complete a specific task. In other words, whatever you tell that executable file to do, the computer is going to carry out because whatever a computer is told to do / programmed to do, it WILL do.



```
31 self.file = None
32 self.fingerprints = set()
33 self.logdupes = True
34 self.debug = debug
35 self.logger = logging.getLogger(__name__)
36
37 if path:
38     self.file = open(path, 'a')
39     self.file.write(f'\n')
40     self.fingerprints.add(path)
41
42 @classmethod
43 def from_settings(cls, settings):
44     debug = settings.DEBUG
45     return cls(settings, debug)
46
47 def request_seen(self, request):
48     fp = self.request_fingerprint(request)
49     if fp in self.fingerprints:
50         return True
51     self.fingerprints.add(fp)
52     if self.file:
53         self.file.write(f'{fp}\n')
54
55 def request_fingerprint(self, request):
56     return request_fingerprint(request)
```

# What was the first major computer programming language?

The first major computer programming language was called FORTRAN (Formula Translation). It was made in 1956, by a team led by John Backus at IBM.



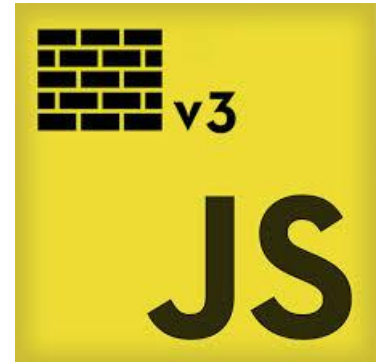
```
! gs_eq.F90 •
61 !!
62 !! Load equilibrium from file and constructs mesh and FE objects
63 !!
64 !! @note Should only be used via class \ref psi_gs_eq or children
65 !
66 SUBROUTINE gs_setup(self)
67 CLASS(psi_gs_eq), INTENT(inout) :: self
68 INTEGER(4) :: i,io_unit
69 REAL(8) :: pmin
70 STACK_PUSH
71 !---Load GS grid
72 CALL trimesh_load(self%mesh,TRIM(self%grid_file))
73 CALL trimesh_local_setup(self%mesh)
74 !---Load GS field (order)
75 OPEN(NEWUNIT=io_unit,FILE=TRIM(self%field_file))
76 READ(io_unit,*)self%order
77 ALLOCATE(self%lagrange)
78 CALL psi_lag_setup_trimesh(self%lagrange%
79 !---Load GS field (B,P)
80 ALLOCATE(self%Bvals(3,self%lagrange%ne),s
81 DO i=1,self%lagrange%ne
82   READ(io_unit,*)self%Bvals(i,i),self%Bva
83 END DO
84 CLOSE(io_unit)
85 !---
86 pmin=MINVAL(self%Bvals)
87 self%pmax=MAXVAL(self%Bvals)
88 !
89 self%B_inter%Bvals=>self%Bvals
90 self%B_inter%Blag_rep=>self%lagrange
```

Ln 78, Col 42 Spaces: 2 UTF-8 LF Fortran

# Computer Languages that are in use today

Some programming languages that are in use today are:

- Python
- Visual Basic
- C++
- JavaScript
- C#



# What is object oriented programming? What is Visual Basic?

Object oriented programming is programming based on the idea of objects, which can contain code. A feature of objects would be that it would be able to access and modify its own data fields.

Visual Basic is an event driven / object based programming language developed by Microsoft, and it is intended to be easy to learn and use.

